

PRIORITYP 252241Z
FM NPIC

1965 MAY 25 23 49Z

OUT 55821

26 MAY 1965

AFSSO USAFE
AFSSO PACAF

CNO

OPCEN

YWQLAZC/AFSSO SAC
YWQLAZC/AFSSO ACIC
YWQLAZC/AFSSO FTD
ZEM

TOP SECRET

CITE NPIC 4616.

SUBJECT: CAMERA INFORMATION FOR MISSION 1021-1.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS:
TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA,
AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD	AFT	STAR HOR	PORT HOR	STELLAR	INDEX
FOCAL						
LENGTH (MM)	609.60	609.60	FWD 54.30	FWD 54.56 (1)	84.1533 (1)	38.3220
			AFT 55.53	AFT 54.77 (2)	84.1805 (2)	38.1619
FILTER						
(WRATTEN NBR)	25	21	25	25	NONE	21
APERTURE	F3.5	F3.5	F6.8	F8.0	F1.8	F4.5
SLIT WIDTH						
(IN.) EXPOSURE						
(SEC.)	.250	.175	1/100	1/100	2.0	1/500
FILM	4404	4404	4404	4404	4401	4400

COPIES RECEIVED		Ant
Office	25X1	
File		
OS		
ADMIN	25X1	
SEC BR		
P&DS	25X1	
CSD		
IPD		
PD		
PSD		
PSD-ICB	25X1	
TID		
PID		
PAG		
DIAXX-4		
SPAD		
NSA-LO		
DIA-AP		

TOP SECRET

RESOLUTION

-2-

(L/MM)	177	208	FWD 166	FWD 170	(1) 73
			AFT 174	AFT 164	(2) 72

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADINGS REFER TO PART-1 AND PART-2 OF THE MISSION.

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.006	.004	.001	.000	.000	.002	.002
AFT UNIT	.001	.000	.000	.000	.001	.001	.001

B. HORIZON CAMERAS (MM)

	FWD		AFT	
	PORT	STARBOARD	PORT	STARBOARD
(RADIAL) 10 DEGREES	.002	.002	.000	MINUS .001
20 DEGREES	.008	.009	.003	MINUS .002

(TANGENTIAL)

MAX VECTOR	.005	.003	.007	.003
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4. CAMERA ANGLES

DEGREES MINUTES

A. ANGLE BETWEEN MAIN CAMERAS	29	41.8
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B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS

PART (1)	90	0.5
PART (2)	89	59.9

C. DEPRESSION ANGLE BETWEEN HORIZON AND

MAIN CAMERAS	FWD STARBOARD	15	32
	FWD PORT	15	22
	AFT STARBOARD	14	36

-3-

AFT PORT 15 12

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV) IN RAD/SEC, AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS	GAV.	NO.	CPS	GAV.	
7	.3351	.0303	6	.0816	.0074	1D1 THRU 11D1
6	.3527	.0319	6	.0816	.0074	13D1 THRU 79D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME				PROGRAM ON TIME	PROGRAM
	(ZEBRA TIME)				UP RAMP	DURATION
	DAY	HOUR	MIN	SEC	SEC	SEC
1D1	18	19	31	00	1348	38
2D1	18	20	54	52	996	63
2D2	18	21	00	32	1336	55
6D1	19	03	15	11	2263	47
9AE	19	07	08	34	99	48
9D1	19	07	35	47	1731	85
9D2	19	07	39	04	1929	160
10D1	19	09	14	42	2279	131
11D1	19	10	35	42	1750	54
13D1	19	13	43	59	2209	146
16D1	19	17	56	46	1212	89
16D2	19	18	02	20	1546	38

-4-

17D1	19	19	19	54	812	79
18D1	19	20	52	17	968	84
20D1	19	23	58	17	1352	104
21D1	20	01	27	33	1320	56
21D2	20	01	41	07	2133	86
21D3	20	01	44	10	2316	131
22D1	20	02	56	09	1248	57
22D2	20	03	00	02	1481	56
22D3	20	03	10	27	2106	70
22D4	20	03	12	28	2227	56
23D1	20	04	28	28	1398	54
23D2	20	04	32	52	1662	221
24D1	20	06	04	14	1763	85
25AE	20	07	05	51	71	46
25D1	20	07	34	35	1795	220
26D1	20	08	50	38	970	74
26D2	20	09	11	43	2235	207
27D1	20	10	33	12	1737	53
30D1	20	15	17	40	2641	132
32D1	20	17	59	33	1580	38
34D1	20	20	49	03	973	151
35D1	20	22	21	59	1162	91
35D2	20	22	42	42	2406	54
37D1	21	01	26	18	1448	85
37D2	21	01	41	18	2348	130

-5-

41D1	21	07	21	07	1191	109
41D2	21	07	38	30	2233	116
42D1	21	09	09	03	2281	175
42D2	21	09	13	38	2556	148
43D1	21	10	30	31	1783	55
45D1	21	13	21	46	1284	155
46D1	21	15	14	43	2675	180
48D1	21	17	56	30	1608	37
50D1	21	20	48	29	1155	58
51D1	21	22	18	53	1193	93
55D1	22	04	27	25	1761	161
56D1	22	05	58	13	1824	131
57D1	22	07	28	47	1871	205
58D1	22	09	05	38	2297	192
59D1	22	10	29	38	1950	130
62D1	22	14	47	31	1267	206
62D2	22	14	53	51	1648	48
62D3	22	15	00	43	2060	47
64D1	22	17	53	16	1639	39
65D1	22	19	14	07	1104	61
66D1	22	20	43	21	1073	62
66D2	22	20	45	22	1194	103
67D1	22	22	15	54	1241	67
69D1	23	01	24	00	1757	101

- 6 -

69D2	23	01	35	22	2440	102
70D1	23	02	46	58	1351	105
70D2	23	02	50	49	1582	55
71D1	23	04	25	05	1853	191
72D1	23	05	54	52	1855	145
73D1	23	07	23	37	1795	239
74D1	23	09	03	01	2375	160
74D2	23	09	07	52	2666	85
75D1	23	10	26	45	2014	99
79D1	23	16	21	06	1732	668

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
0	290912.7279	65372.9554	----
9	337639.0849	25699.3122	.000
16	376960.8569	65021.0830	.001
25	423874.9989	25535.2222	.003
32	463075.9019	64736.1219	.003
41	510104.8229	25365.0377	.005
47	7034.3349	59165.4571	.004
57	59445.1259	25176.2395	.009
63	93401.5039	59132.6110	.006
72	140138.9459	19470.0430	.010
79	179472.3439	58803.4315	.009

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

9. REMARKS

1

-7-

A. S/I UNIT - PART 1 D 63/69/69

PART 2 D 25/27/25

B. BECAUSE THIS VEHICLE IS MOVING NOSE-FIRST, THE OPPOSITE OF THE USUAL KH-4 ORIENTATION, UNIT NBR 166 (MASTER) LOOKS AFT AND UNIT NBR 167 (SLAVE) LOOKS FWD. IN THIS MESSAGE FWD REFERS TO UNIT NBR 167 AND AFT REFERS TO UNIT 166 CORRESPONDING TO THE FILM TITLING. THE STELLAR CAMERA LOOKS WESTWARD ON DESCENDING PASSES.

C. PARAGRAPH 7 (PROGRAM TIME DATA)

NOTE: DATA IS THE SAME FOR BOTH THE MAIN UNITS.

T O P S E C R E T

/END OF MESSAGE/

(ABOVE MESSAGE ALSO PASSED



25X1

1